NPMETS, O.F.; TOKAREVSKIY, V.V.

Spins and parities in certain states of Cd¹¹², Sn¹¹⁸, and Sn¹²⁰. Izv. AN SSSR. Ser. fiz. 25 no.9:1138-1140 '61.

(MIRA 14:8)

1. Institut fiziki AN USSR.

(Cadmium--Isotopes)

(Tin--Isotopes)

s/056/62/042/006/011/047 B104/B102

AUTHORS:

Nemets, O. F., Tokarevskiy, V. V.

TITLE:

The "gross structure" of the proton spectra in stripping

reactions

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,

no. 6, 1962, 1481 - 1487

TEXT: In order to study the "gross structure" of the proton energy spectra, the (d,p) stripping reactions on Fe⁵⁶, Cu^{63,65}, Zn, Se, Zr, Nb⁹³, Ag^{107,109}, Cd^{111,116}, Sn^{116-120,124}, Pt, Au¹⁹⁶, Pb²⁰⁸, and Bi²⁰⁹ nuclei were investigated. Measurements were made with a stripping reaction of Fe⁵⁶, Cu^{63,65}, Zn, Se, Zr, Nb⁹³, Ag^{107,109}, cd^{111,116}, Sn^{116-120,124}, Pt, Au¹⁹⁶, Pb²⁰⁸, and Bi²⁰⁹ nuclei were investigated. gated. Measurements were made with an external 13.6 Mey deuteron beam of the cyclotron of the Institut fiziki AN USSR (Institute of Physics, AS UkrSSR). The targets were unbacked films of between 2 and 6 mg/cm2 thickness. The differential cross section of the stripping reaction as function of the energy liberated exhibits maxima. There is a clear relationship between the positions of the maxima of this gross structure and the strongly excited levels of the nuclei. Many levels correspond to each

Card 1/2

CIA-RDP86-00513R001756020012-7" APPROVED FOR RELEASE: 07/16/2001

S/056/62/042/006/011/047 B104/B102 or shells progressively sistion of the residual

The "gross structure"...

maximum of the gross structure. As the nuclear shells progressively become filled the energy liberated in the transition of the residual nucleus to the ground state decreases. The maxima of the neutron spectra are coordinated with an excitation of the single-particle states of the nuclei. There are 3 figures and 1 table.

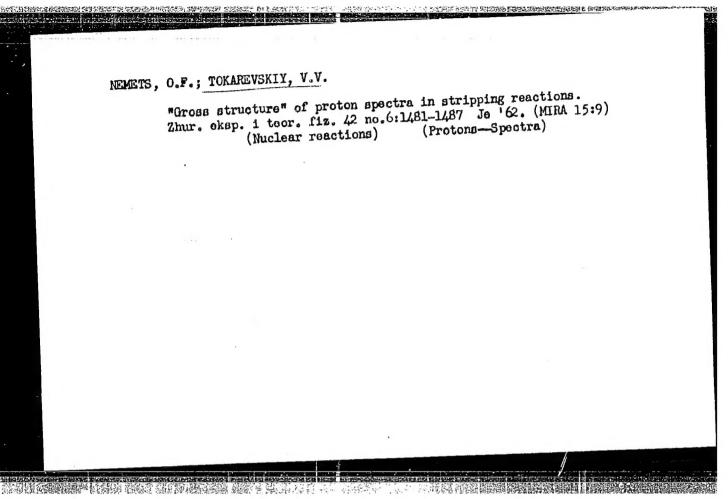
SUBMITTED: | January 30, 1962

Card 2/2

TOKAREVSKIY, V. V., and others

"Investigation of elastic and inelastic scattering of protons and deuterons by light nuclei"

Report presented at the Conference on Nuclear Reactions produced by light nuclei, Dubna, December 1962



NEMETS, O.F.; TOKAREVSKIY, V.V.

Inelastic deuteron scattering on certain chromium, zinc, and tin fisotopes. Izv. AN SSSR. Ser. fiz. 27 no.7:927-931 '63.

(MIRA 16:8)

1. Institut fiziki AN UkrSSR.

(Deuterons--Scattering)

L 11397-63

EWT(m)/BDS AFFIC/ASD

S/120/63/000/002/006/041

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53

AUTHOR:

Nemets, O. F., Struzhko, B. G., amd Tokarevskiy, V. V.

TITLE:

Selective scintillation spectrometer for charged particles

PERIODICAL:

Pribory i tekhnika eksperimenta, March-April 1963, v. 8, no. 2,

34-36

TEXT: The article describes a spectroscope capable of simultaneously measuring the specific ionization losses (dE/dx) and the total energy (E) of charged particles by means of two CsI(Tl) crystal scintillation spectrometers in the same housing. The energy resolution of the spectrometer is 3-3.5 percent and it may be used for conducting measurments beginning with very small angles. There are five figures.

ASSOCIATION: Institut fiziki AN USSR (Physics Institute, Academy of Sciences

Ukrainian SSR)

SUBMITTED:

June 19, 1962

ja/CA

Card 1/1

L 17865-63 EWT(m)/BDS AFFTC/ASD ACCESSION NR: AP3003698

5/0048/63/027/007/0927/0931

353

AUTHOR: Nemets, O.F.; Tokarevskiy, V.V.

TITLE: Inelastic scattering of deuterons by some chromium, zinc and tin isotopes /Roport of the Thirteenth Annual Conference on Nuclear Spectroscopy, held in Kiev from 25 January to 2 February 1963/

SOURCE: AN SSSR, Izv.Seriya fizicheskaya, v.27, no.7, 1963, 927-931

TOPIC TAGS: deuteron scattering, inelastic scattering, Cr. Zn., Sn., chromium, zinc,

ABSTRACT: The singularities of deuterons (low binding energy, asymmetry and large radius) largely determine the particular mechanism of inelastic scattering of these particles and make it different from the scattering mechanism typical of other particles. Despite the fact that there have been numerous studies of inelastic deuteron scattering since 1949, the nature of the mechanism involved is still obscure, and, owing to the lack of an adequate theory and full data, the results of deuteron scattering experiments cannot be utilized for the purposes of nuclear spectroscopy. Hence for the purpose of obtaining additional information on inelastic scattering of deuterons the authors carried out measurements of the differential inelastic scattering cross sections for 13.6 MeV deuterons by Cr⁵⁰ (0.79 MeV),

Card 1/2

L 17865-63

ACCESSION NR: AP 3003698

3

cr52 (1.42 MeV), Zn64 (0.98 MeV), Zn⁶⁸ (1.02 MeV), Zn⁷⁰ (1.0 MeV) and Sn¹¹⁶ (1.2 and 2.3 MeV). The scattered deuterons were detected by means of a scintillation spectrometer, using the "dE/dx and E method". The observed angular distributions are presented in the form of curves. It is difficult to identify a predominant reaction mechanism on the basis of the results for inclastic scattering. It would appear that the conclusion of M.El-Nadi and M.Wafik (Proc.Phys.Soc.,76, 185,1960) that the predominant inclastic scattering mechanism in stripping is valid only for light nuclei in the range of medium angles. "The authors are grateful to A.P.Klyucharev for providing the isotopic targets, L.I.Slyusarenko for assistance in the work and the personnel of the Cyclotron Laboratory for insuring faultless operation of the accelerator." Orig.art.has: 7 figures and 1 table.

ASSOCIATION: Institut fiziki Akademii nauk UkrSSR (Institute of Physics, Academy of Sciences, UkrSSR)

SUBMITTED: 00

DATE ACQ: 02Aug63

ENCL: 00

SUB CODE: NS

NO REF SOV: 002

OTHER: 016

Card 2/2

L 13618-63 EWP(q)/EWT(m)/3DS AFFTC/ASD JD S/0056/63/044/006/1765/1769 6/

AUTHOR: Val'ter, A. K.; Klyucharev, A. P.; Nemets, O. F.; Tokarevskiy, V. V.

TITLE: Elastic scattering of deuterons by chromium and zinc isotopes

SOURCE: Zhurnal eksper. i teor. fiziki, v. 44, no. 6, 1963, 1765-1769

TOPIC TAGS: elastic deuteron scattering, chromium isotope, zinc isotope, angular distribution, optical model, compound nucleus model

ABSTRACT: The angular distributions of 13.6-MeV deuterons elastically scattered by Cr sup 50, 52, 53, 54, and Zn sup 64, 68, 70 isotopes are measured at angles from 2.5 to 150° with the aim of studying isotopic effects for elastic scattering of deuterons, similar to studies already made for protons. The curves obtained for the ratio of the experimentally measured cross sections to the cross sections for Coulomb scattering have a diffraction nature. As the number of neutron increases, the maxima shift toward the smaller angles and the cross section begins to decrease at a higher rate with increasing angle. Comparison is made with data obtained by others. "In conclusion, the authors take this opportunity to express their gratitude to V. N. Medyanik, L. G.
Lishenko, and A. D. Nikolaychuk for preparing the isotope targets; and to the Cord 1/2/ cyclotron crew for uninterrupted operation of the apparatus.

Association: Inst. of Physics, Academy of Sciences, UkrSSR

B/056/63/044/001/004/067 B108/B180

AUTHORS: Zaika, N. I., Nemets, O. F., Tokarevskiy, V. V.

TITLE: The spins and parities of some states of molybdenum isotopes

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 1, 1963, 17 - 21

TEXT: The angular distributions of protons emerging from (d,p) reactions on targets enriched in Mo⁹², 94, 95, 96 were measured by means of an ionization chamber with a deuteron absorber at its input. The deuterons releasing the reaction had an energy of 13.6 Mev. The angular momenta for neutron capture in the ground, and first excited, states were obtained from the experimental data with the aid of Butler's theory (Proc. Roy. Soc., A208, 559, 1951). The possible spins and parities of these states of the Mo isotopes are considered in this way. Results: Mo⁹² - (1) $3/2^+$ or $5/2^+$, (2) $1/2^+$; Mo⁹³ - (1) $5/2^+$, (2) $1/2^+$; Mo⁹⁵ - (1) $3/2^+$ or $5/2^+$, (2) $1/2^+$; Mo⁹⁶ - (1) from 0⁺ to 5⁺, (2) probably $5/2^+$; Mo⁹⁷ - (1) $5/2^+$, Card 1/2

S/056/63/044/001/004/067 B108/B180

The spins and parities of some ...

(2) 1/2⁺ and 7/2⁺, not resolved. (1) refers to the ground level, (2) to the first excited level. It is pointed out that the (d,p) reactions are suitable for nuclear spectroscopy in the range of atomic weights around 100 at energies of 13 - 15 Mev. There are 4 figures.

ASSOCIATION: Institut fiziki Akademii nauk Ukrainskoy SSR (Physics Institute of the Academy of Sciences Ukrainskaya SSR)

SUBMITTED: June 18, 1962

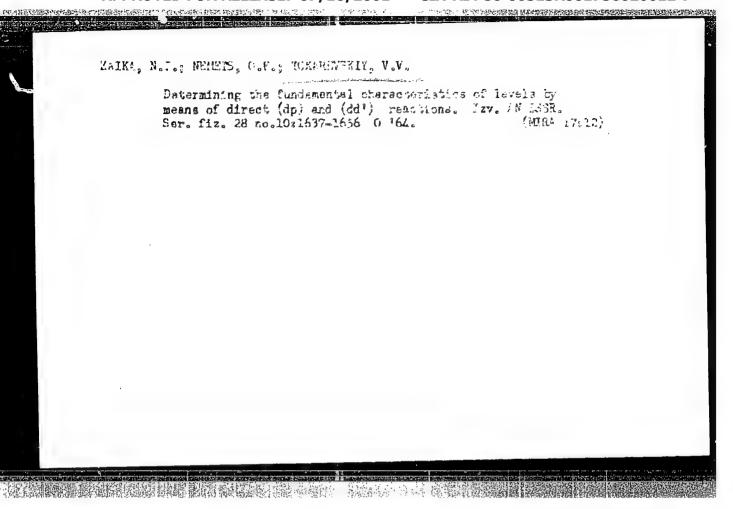
.Card 2/2

NEMETS, O.F.; PIKAR, F. [Picard, F.]; SLYUSARENKO, L.I.; TOKAREVSKIY, V.V.

Elastic deuteron scattering on nitrogen, oxygen, and argon.
Zhur. eksp. i teor. fiz. 45 no.4:850-851 0 i63. (MIRA 16:11)

1. Institut fiziki AN UkrSSR. 2. Sotrudnik Laboratorii yadernoy fiziki imeni Zholio-Kyuri, Orse, Frantsiya.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020012-7"



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NR REF SOV- DOO	OTHER: 365

L 14496-65 ENT(m) DIAAP/AFWL/SSD/ESD(ge)/ESD(t)

ACCESSION NR: AP4048644

AUTHOR: Dobrikov, V.N.; Pikar,F.; Nemets,O.F.; Stryuk,Yu.S.; Tokarevskiy,V.V.

TITLE: Investigation of the low-lying states of Mg 25 / Report, Fourteenth Annual Conference on Nuclear Spectroscopy held in Thilis: 14-22 Feb 14467

DOMESTIC TAGG: District Applies, nuclear spectroscopy, desteron reaction, aluminum, magnesium

ABSTRACT: The energy and angular distribution of G-particles from the CT grant and the conference of the conference of

L. 14496-65
ACCESSION NR: AP4048344

or M.El-Naci (Phys.Rev.115,242,15%), and encouraging agreement was found. It was found that, in contrast with the senavior observed in (a,p) reactions, the probabilities for the transfer of all angular actual term that he time limit with the senavior observed in (a,p) reactions, the probabilities for the transfer of all angular actual term that he time limit with the senavior observed in (a,p) reactions, the probabilities for the transfer of all angular actual term that he time limit with the senavior observed in (a,p) reactions, the probabilities found in (a,p) reactions, the probabilities found that, in contrast with the senavior observed in (a,p) reactions, the probabilities found in (a,p) reactions found in (a,p) reactions, the probabilities found in (a,p) reacti

...., B. N.; NEMETS, O. F.; PIKAR, F.; STRYUK, Yu. S.; TOKAREVSKIY, V. V.

"Investigations of the Lowest States of Mg²⁵."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

IF AN UkSSR, KGU [Inst Physics, AS UkSSR, Kiev State Univ]

NEMETS, C. F.; STRYUK, Yu. S.; TOKAREVSKIY, V. V.

"Investigations of Low-Lying States of Si³⁰."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22

Feb 64.

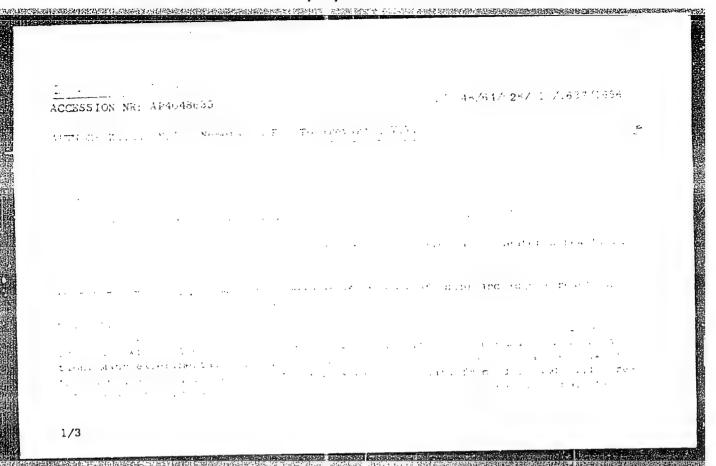
Inst Physics, UkSSR, Kiev State Univ

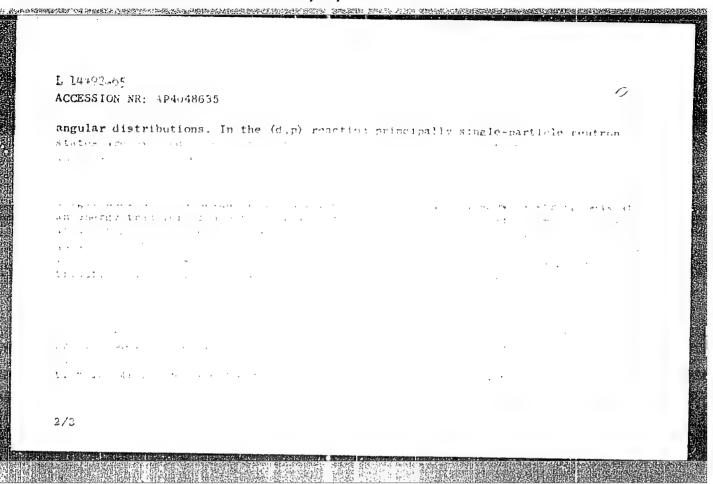
ZAKA, ... I.; NEMETS, O. F.; TOKAREVSKIY, V. V.

"Determination by Model of the Nature of Levels of the Nucleus with the Help of Direct Reactions (d,p) and (d,d')."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22

Inst Physics, AS UkSSR





ACCESSION NR: AP4040035

fore clear deductions can be drawn. The a thorse excluses their pratitizes to Asaprocession of the control of the

MEMETS, O.F. [Niemets', C.F.]; SLYUSARENKO, L.I.; TOKAREVSKIY, V.V. [Tokarevs'kyi, V.V.]

Excitation of a single-phonon quadruplet in the inelastic scattering of deuterons on copper isotopes. Ukr. fiz. zhur. 9 no.5:564-566 My 164. (MIRA 17:9)

1. Institut fiziki AN UkrSER, Kiyev.

NEMETS, O.F. [Niemets', O.F.]; PIKAR, F.; SLYUSARENKO, L.I.; TOKAREVSKIY, V.V. [Tokarevs'kyi, V.V.]

Angular distribution of 13.6 Mev. deuterons elastically scattered by certain light and medium nuclei. Ukr. fiz. zhur. 9 no.6:599-609 Je 164. (MIRA 17:11)

1. Institut fiziki AN UkrSSR, Kiyev. 2. Inboratoriya imeni Zholio-Kyuri, Orse, Frantsiya (for Pikar).

TOKAREVSKIY, V.V. [Tokarevs'kyi, V.V.]; YAO LYAN [Yao Liang]

Inelastic scattering of deuterons by zinc and zirconium. Ukr. fiz. zhur. 9 no.6:610-616 Je '64.

1. Institut fiziki AN UkrSSR, Kiyev.

(MIRA 17:11)

NEMETS, O.F.; PIKAR, F. [Picard, F.]; TOKAREVSKIY, V.V.

Inelastic scattering of deuterons by certain even lead isotopes.

Zhur. eksp. i teor. fiz. 46 no.5:1898-1960 My '64.

1. Institut fiziki AN UkrSSR. 2. Laboratoriya imeni Zholio-Kyuri, Orse, Frantsiya (for Pikar).

NEMETS, O.F.; PIKAR, F.; SLYUSARENKO, L.I.; TOKAREVSKIY, V.V.

Elastic scattering of deuterons on strontium and tin isotopes. Zhur, eksp. i teor. fiz. 46 no.5:1900-1901 My '64.

1. Institut fiziki AN UkrSSR. 2. Laboratoriya imeni Zholio-Kyuri, Orse, Frantsiya (for Pikar).

TOKAHENA, F. A.

"Sur la reaction du diazomethane avec l'etanolmercuro-bromure et sur la structure des produits de la dixation des sels sur mercure sur les olefines." Freidline, R. Ch., Nesmelanow, A. N. et <u>Tokarewa</u>, F. A. (p. 262)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1937, Volume 7, No. 1

TOKARZ, Feliks; HCLYST, Jerzy; GRADZKI, Janusz

Anomaly of Galen's vein. Henrol., neurochir., psychiat. Pol. 14 no.3:541-543 My-Je '64

1. Z Kliniki Neurochirurgii Akad mii Medycznej w Poznaniu (Kierownik: doc. dr. H. Powiertovski).

TOKARZ, Feliks; MATLOSZ, Zenon

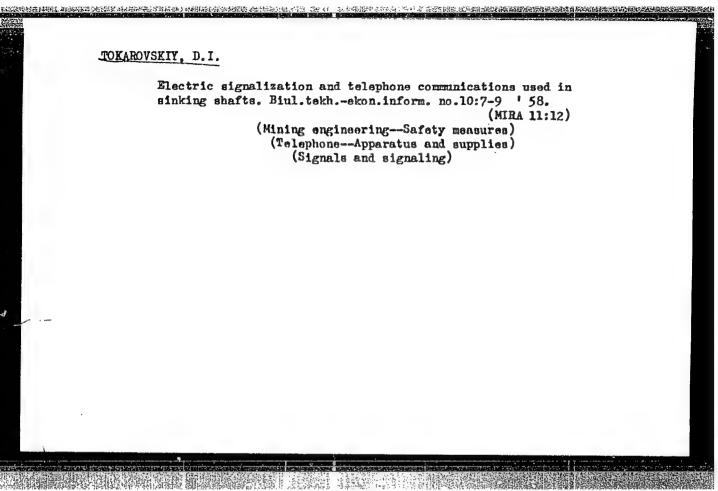
Two cases of epidermoid cyst of the cerebellopontile angle. Neurol., neurochir., psychiat. Pol. 14 no.3:545-547 My-Je 164

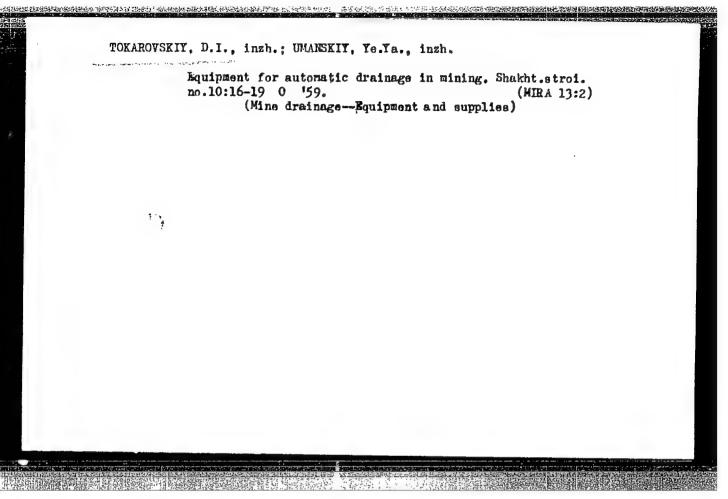
1. Z Kliniki Neurochirurgii Akademii Medycznej w Poznaniu (Kierownik: doc. dr. med. H. Powiertowski).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020012-7"

TOKAROV, V.P., OL'MAN, YE. V. and SOLCV'YEV, YA. I.

Autopilots
Oborongiz (1946)

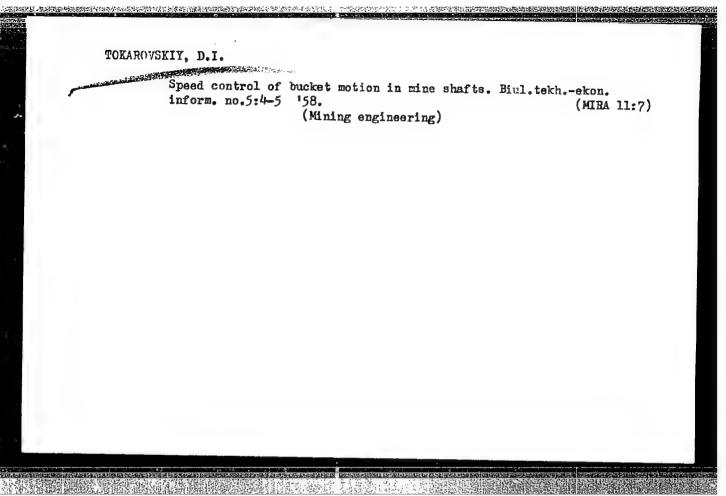




TOKAROVSKIY, D.I., inzh.

Introducing automatic control of mine hoisting systems. Shakht.
stroi. no.9:4-7 S '59. (MIRA 12:12)

(Mine hoisting) (Automatic control)



1 UKHAUNAM, WI

ANDROS, I.P., inzh.; ASSONOV, V.A., kand. tekhn. nauk.; BERNSHTEYN, S.A., inzh.; BOKIY, B.V., prof.; BROVMAN, Ya.V., inzh. BONDARENKO, A.P., inch.; BUCHNEV, V.K., kand. tekhn. nauk; VERESKUNOV, G.P., kand. tekhn. nauk; VOLKOV, A.F., imzh.; GELESKUL, M.N., kard. tekhn. nauk; GORODNICHEV, V.M., inzh.; DEMENT'YEV, A.Ya., inzh.; DOKUCHAYEV, M.M., inzh.; DUBNOV, L.V., kand. tekhn. nauk; MEPIFANTSKV, Yu.K., kand. tekhn. nauk. : YMRASHKO, I.S., imzh.; ZHKDANOV, S.A., kand. tekhn. nauk; ZIL'BERBROD, A.F., inzh.; ZINCHENKO, E.M., inzh.; ZORI, A.S., inzh.; KAPLAN, L.B., inzh.; KATSAUROV, I.H., dots.; KITAYSKIY, E.V., inzh.; KRAVTSOV, Ye.P., inzh.; KRIVOROG, S.A., inzh.; KRINITSKIY, L.M., kand, tekhn, nayk; LITVIN, A.Z., inzh.; MALEVICH, N.A., kand, tekhn, nauk; MAN'KOVSKIY, G.I., doktor tekhn, nauk; MATKOVSKIY, A.L., inzh.; MINDELI, E.O., kand. tekhn. nauk; NAZAROV, P.P., kand. tekhn. nauk; NASONOV, I.D., kand. tekhn. nauk; NEYYKNBURG, V.Ye., kand. tekhn. nauk; PCKROVSKIY, G.I., prof., doktor tekhn. nauk; PROYAVKIN, E.T., kand, tekhn, nauk; ROZEMBAUM, inzh.; ROSSI, B.D., kand. tekhn. nauk; SEMEVSKIY, V.N., dekter tekhn. nauk; SKIRGELLO, O.B., inzh.; SUKRUT, A.A., inzh.; SUKHANOV, A.F., prof., doktor tekhn. nauk; TARANOV, P.Ya., kand. tekhn. nauk; TOKAROVSKIY, D.I., inzh.; TRUPAK, N.G., prof., doktor tekhn. nauk; FEDOROV, S.A., prof., doktor tekhn. nauk; FEDYUKIN, V.A., Amzh.; KHOKHLOVKIN, D.M., inzh.; KHRABROV, N.I., kand. tekhr. nauk; CHEKAREV, V.A., inzh.; CHERNAVKIN, N.N., inzh.; SHREYBER, B.P., kand. tekhn. nauk; EPOV, B.A., kand. tekhn. nauk; YAKUSHIN, N.P., kand. tekhn. nauk; YANCHUR, A.M., inzh.; YAKHONTOV, A.D., inzh.; POKROVSKIY, N.M., otvetstvennyy red.; KAPIUN, Ya.G. [deceazed], ref.; MONIN, G.I., red.; SAVITSKIY, V.T., (Continued on next card)

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ANDROS, I.P.——(Sontinued) Carel 2.
red.; SANOVICH, P.O., red.; VOLOVICH, M.Z., inzh., red.; GORITSKIY,
A.V., inzh., red.; POLUTANOV, V.A., inzh., red.; PADZYEV, E.I.,
inzh., red.; CHECHKOV, L.V., red. izd-va; PROZOROVSKAYA, V.L.,
tekhn. red.; NADEINSKAYA, A.A., tekhn. red.

[Mining; an encyclopaedic handbook] Gernos dela; entsiklepedicheskii spravochnik, Glav. red. A.M. Terpigorev. Moskve, Gos. hauchnotekhnicheskos izd-vo lit-ry po ugolinoi proxyshl. Vol.b [Mining and timbering] Provedenie i kreplenie gornykh vyrabotok. Red-kollegiis toma: F.M.Pckrovskii... 1958. 464 p. (MRR 11:7)

(Mining engineering) (guiredmit activ)

TOKAROWSKI, Andrezej

Electromyographic evaluation of the activity of antycholinesterases in the regressive stage of Heine-Medin disease. Pol. tyg. lek. 19 no.4:124-126 27 Ja 164.

1. Z Kliniki Chirurgii Ortopedycznej Sl. Akademii Medycznej w Bytomiu (kierownik: prof. dr med. Gabriel Wejsflog).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020012-7"

TOKAROWSKI, Andrzej

Electromyographic muscle test. Pol. tyg. lek. 19 no.34: 1299-1300 24 S '64.

1. Z Kliniki Chirurgii Ortopedycznej Sl. Akademii Medycznej w Bytomiu (kierownik: prof. dr med. Gabriel Wejsflog).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020012-7"

TOKAROWSKI, Andrzej

Respiratory disorders in cervical and upper thoracic injuries of the spine associated with paralysis. Chir. narzad. ruchu crtop. Pol. 29 no.2:165-169 164.

1. Z Kliniki ^Chirurgii Ortopadycznej w Bytomiu (Kierownik: prof. dr. G. Wejsflog).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020012-7"

TOKAROWSKI, Andrzej

Miomechanics of idiopathic scoliosis in the light of electromyographic studies. Chir. narzad. ruchu ortop. Pol. 30 no.4: 385-390 '65.

1. Z Kliniki Chirurgii Ortopedycznej Slaskiej AM w Bytomiu (Kierownik: prof. dr. med. G. Wejsflog).

TOKAROWSKI, Andrzej

Fortnogenesis of idiopathic scollosis in the light of electromyographic studies. Chir. narzad. ruchu ortopd. Pol. 30 no.3: 299-304 165.

1. Z Kliniki Chirurgii (n topodycznej Glaskiej AM w Bytomiu (Kierownik: prof. dr. med. G. Wejsfiog).

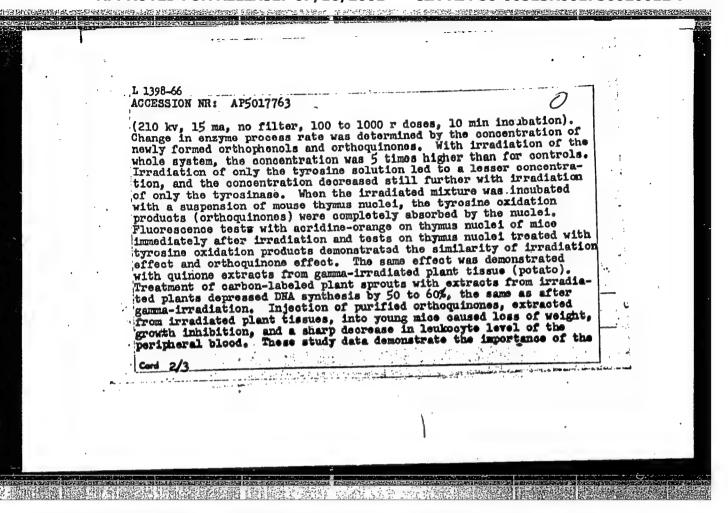
TOKARSKA, B.

Industrial design in Great Britain after the war. Biuletyn Wzor.

p. 1 (Szklo i Ceramika) Vol. 8, no. 10, Oct. 1957, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) I.C., VOL. 7, NO. 1, JAN. 1958

L 1398-66 ENT(n) ACCESSION NR: AP5017763 UR/0216/65/000/004/0507/0520
AUTHOR: Kuzin, A. M.; Plyshevskaya, Ye. G.; Kopylov, V. A.; 34 Ivanitskaya, Ye. A.; Lebedeva, N. Ye.; Kolomiytaeva, I. K.; 33 Tokarskaya, S. K.; Mel'nikova, S. K.
TITLE: Role of the "orthophenol-orthoquinone" system in the primary mechanisms of radiation effect on the organism
SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 4, 1965, 507-520
TOPIC TAGS: radiation biologic effect, rhenol, quinone, enzyme, desoxyribonucleic acid, tyrosine, oxidation
ABSTRACT: A hypothesis stating that the oxidation reaction of orthophenols in response to high energy irradiation is closely related to the formation of orthoquinones (semiquinones) has evolved from the experimental work of the laboratory with which the authors are associated. In the present study the immediate effects of X-irradiation on ensyme process rates were investigated in a tyrosine+tyrosinase model system under strictly controlled conditions
Card 1/3



 ACCESSION NR: AP5017763 "orthophenol-orthoquinone system" in the primary mechanisms of radiation effect. Orig. art. has: 10 figures and 11 tables. ASSOCIATION: Institut biologicheskiy fisiki AN SSSR (Institute of Biophysics AN SSSR) BUBMITTED: 22Jan65 ENGL: 00
NR REF 80V: 021 OTHER: 010
Cord 3/3 (1)

L 20693-66 EWT(1)/EWT(m)/T JK/RM

ACC NR: AP6007761

SOURCE CODE: UR/0205/66/006/001/0003/0008

AUTHOR: Tokarskaya, V. I.; Kuzin, A. M.

35

ORG: Institute of Biological Physics AN SSSR, Moscow (Institut biologicheskoy fizi-

TITLE: The effect of fast neutrons on DNA synthesis in seedlings

SOURCE: Radiobiologiya, v. 6, no. 1, 1966, 3-8

TOPIC TAGS: neutron irradiation, irradiation damage, gamma irradiation, cytoplasm, plant injury

ABSTRACT: Dry pea seeds of the Pobeditel' variety were irradiated with fast neutrons at 1, 3, and 10 krad, and the absorption of C¹⁴ in 4—7 day old seedlings grown from the irradiated seeds was studied. An IRT-100 reactor with a mixed beam comprising 30+% gamma rays was used for the irradiation. In seeds irradiated with fast neutrons at 1—10 krad, C¹⁴ was found in 4—7 day old seedlings. Under neutron irradiation, the rate of DNA synthesis dropped 90% (compared with the control samples). Gamma irradiation of the seeds at the same dosage lowered DNA synthesis in

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	the seedlings by 30%. Unlike gamma irradiation, neutron irradiation lowered high polymer DNA yield by 50%-60%. It is concluded that under gamma irradiation, the destruction of DNA is largely due to the damage to cytoplasm metabolism, while under neutron irradiation, the cells are damaged owing to the disruption of the adenine structure in DNA. The DNA synthesis rate as a function of dozage and kind of irradiation is graphed. Orig. art. has: 4 figures and 2 tables. [14]							
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KUZIN, A.M.; PLYSHEVSKAYA, Ye.G.; KOPYLOV, V.A.; IVANITSKAYA, Ye.A.; LEBEDEVA, N.Ye. KOLOMIYTSEVA, I.K.; TOKARSKAYA, V.I., MEL'NIKOVA, S.K.

Role of orthophenol-orthoquinone system in the initial mechanisms of ionizing radiation action on the organism. Izv. AN SSSR. Ser. biol. no.4:507-520 J1-Ag '65. (MIRA 18:7)

1. Institut biologicheskoy fiziki AN SSSR.

TOKARSKAYA, V.I.

Deamination of adenine in DNA of seeds subjected to the action of fast neutrons. Radiobiologiia 5 no.4:566-570 165.

(MIRA 18:9)

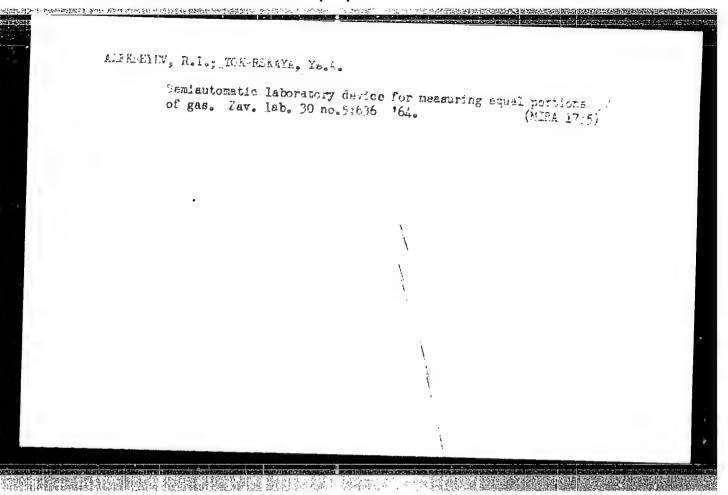
1. Institut biologicheskoy fiziki AN SSSR, Moskva.

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Alf-KSFYEV, R.I.; TOKARSKAYA, Ye.A.

Attachment for gas analysis for the FEK-type photocolorimeter (photometric determination in gaseous mixtures of water vapor, sulfur dioxide, and acetylene). Zhur. anal. khim. 20 no.9: 983-989 '65.

(MIFA 18:9)



THEREPATA, Z.D., Sound Lad Sci-- (19 7) "Shanges in the weartsLysis in radiation sickness." Len., 1.59. 15 pp (Gentral Sci And Inct
of Patient Radiology of the Fin of Realth USSA), 150 cories
(M1,48-73, 107)

TOKARSKAYA, Z.B.

State of proteolysis in combined injuries (trauma and X irradiation). Vop.radiobiol. 2:145-149 '57. (MIRA 12:6)

1. Sotrudnik TSentral nogo nauchno-issledovatel skogo rentgenoradiologicheskogo instituta Ministerstva zdravookhraneniya SSSR. (X RAYS--PHYSIOLOGICAL EFFECT) (FRACTURES) (AUTOLYSIS)

TOKARSKAYA, Z.B.

Neural regulation of autolysis in the irradiated organism [with surmary in English]. Med.rad. 3.no.3:26-29 My-Je 158 (MIRA 11:7)

1. Iz biokhimicheskogo otdela (zav. - prof. S.Ye. Manoylov) TSentral' nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta Ministerstva zdravookhraneniya SSSR.

(AUTOLYSIS, effect or fadiations, in denervated organs (Rus)) (RADIATIONS, effects, on autolysis of denervated organs (Rus))

TOKARSKAYA, Z.B.; VELEZHEV, I.S.; BLAGODETELEVA, V.A. (Kiyev)

Case of pulmonary candidiasis. Klin.med. 38 no.10:114-117 0 '60. (MIRA 13:11)

1. Iz klinicheskogo otdeleniya (zav. - dotsent S.A. Kogan) Ukrainskogo instituta meditsinskoy radiologii (dir. - dotsent Ye.A. Bazloy).

(MONILIASIS)

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KIRTUSHKIN, V.I.; DOSHCHENKO, V.H.; PORGORODETEKAYA, V.M.; NYAMUKAYA, Z.B.

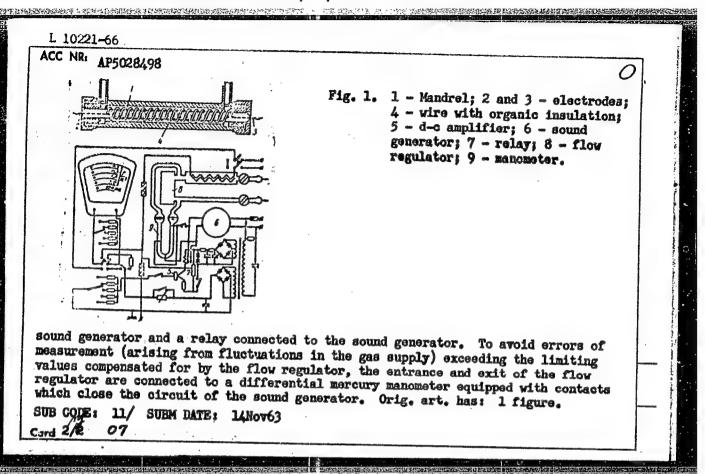
Clinical manifestations in single exposure of the human organism to Cs137. Med. rad. 8 no.11:33-40 N '63.

(MISA 17:12)

Pathochemistry of the liver in poisoning with plutonium-239.
Vop. med. khim. 9 no.2:154-160 Mr-Ap 163. (MIR: 17:8)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020012-7"

10221-66 EWI(m)/T/EWP(t)/EWP(b)/EWA(c)/ETC(m) ACC NRI AP5028498 MY/CL SOURCE CODE: UR/0286/65/000/020/0074/0075 AUTHORS: Alekseyev, R. I.; Voytenko, V. I.; Tokarskaya, Ye. A ORG: none TITLE: Device for determination of moisture in gases. Class 42, No. 175681 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 74-75 TOPIC TAGS: moisture content, moisture determination, moisture measurement, moisture ABSTRACT: / This Author Certificate presents a device for determination of moisture in gases. The apparatus consists of a pipe with a mandrel, flow meter, d-c current supply, and a current meter (automatic or pointer type). On the mandrel are wound two platinum electrodes. The mandrel and electrodes are covered with a thin hygroscopic film, consisting of a partially hydrated coating of phosphorus anhydride. To obtain a uniform hygroscopic film, the mandrel is made from molybdenum glass and has bifilar spiral grooves on its surface for the electrodes. To increase the analytical response, the distance between neighboring electrode windings is maintained constant throughout the length of the mandrel. To increase the absorption of moisture by the hygroscopic film, a wire is wound on the mandrel in the direction opposite to the electrodes (see Fig. 1). The wire has an organic insulation and has a diameter equal to the space between the pipe and the mandrel. To signal excess moisture content in gases, the device has built into it a d-c triode amplifier and Card 1/2 UDC: 533,275.08



.MERENOVA, V.I.

USSR/Chemistry, Biological - Isotopes

1 Jul 52

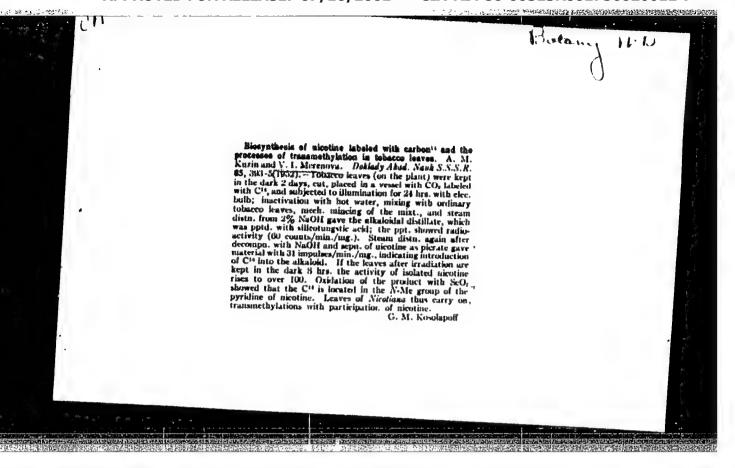
"Blosynthesis of Glutamine, Hydrocarbons, and Proteins Containing Radioactive Carbon," A. M. Kuzin, V. I Merenova, Lab of Biophys, Isotopes, and Radiation, Dept of Biol Sci, Acad Sci USSR

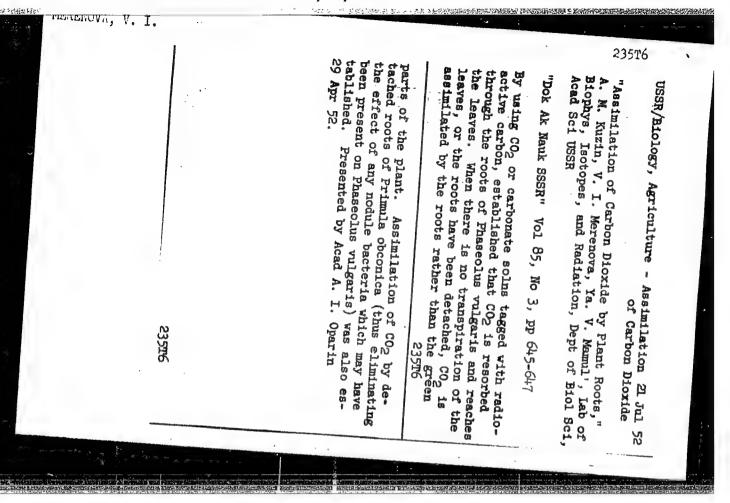
"Dok Ak Nauk SSSR, Vol LXXXV, No 1, pp 181-183

Describes procedure for prepg glutamine, glucose fructose, proteins, and pentosans contg C¹⁴ by the method of biol photo synthesis. Presented by Acad A. I. Oparin 24 Apr 52.

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MERECOVA, V.1.

The Committee on Starte Private for the Conness of Minister a report to be till in the science and inventious appointer that the full busing scientific works, popular tolentific books, and testbooks have been submitted for competition for Stalin Prizes for the years 1950 and 1953. (Covetskaya Kultura, Mascow, No. 27-No. 20 Peo -) Apr 1994)

Kursanov, A.L.

Kryukova, N.N.

Merenova, V.I.

Kuzin, A.M.

Titue of Work

"Plant Utilization of Soil Carbon Dioxide Entering

Through the Roots"

· Nominated by

Institute of Biochemistry imeni A.H. Bakh, Academy of Sciences USSR

50: 4-30604. 7 July 19:m

ASSIMILATION OF CARDON through roots of plants, from organic fertilizers,
Dokl.AN SSSR 90 no.4:677-679 Re '55.

I. Akademiya Nauk SSSR (for Oparin). 2. Institut biologicheskoy fiziki
Akademii nauk SSSR (for Kuzin, Merenova). (Roots (Botany)) (Carbon-Isotopes)

MERENOVA, V. I.

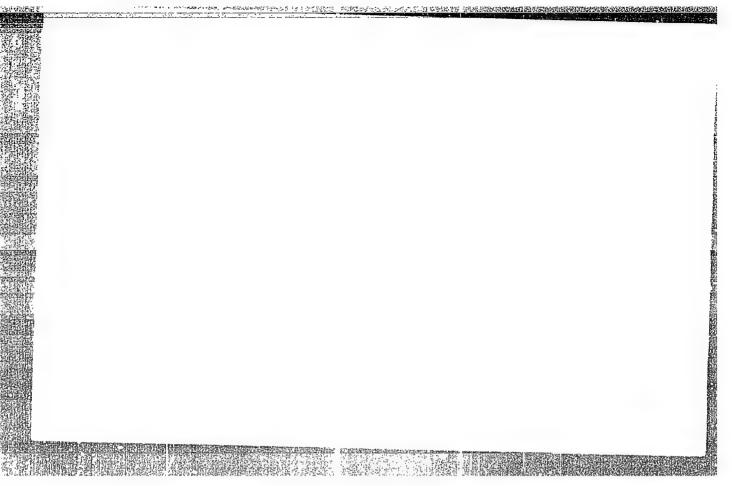
RICIN, A.M.; MERENOVA, V. I.

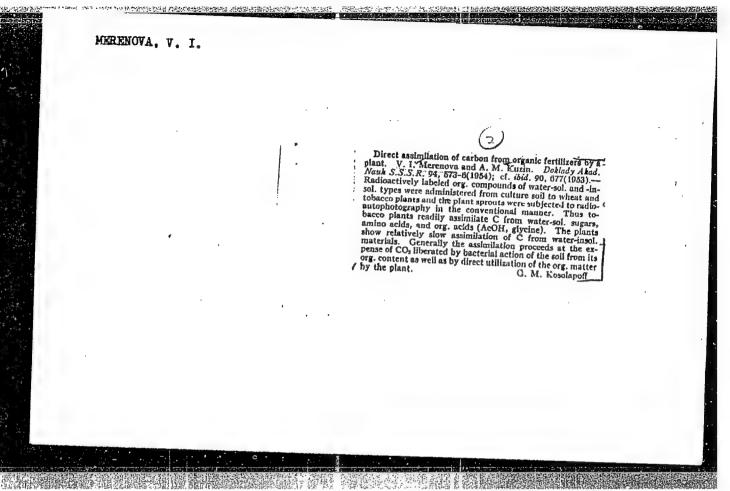
Biosynthesis of opium alkaloids labeled with radiocarbon.

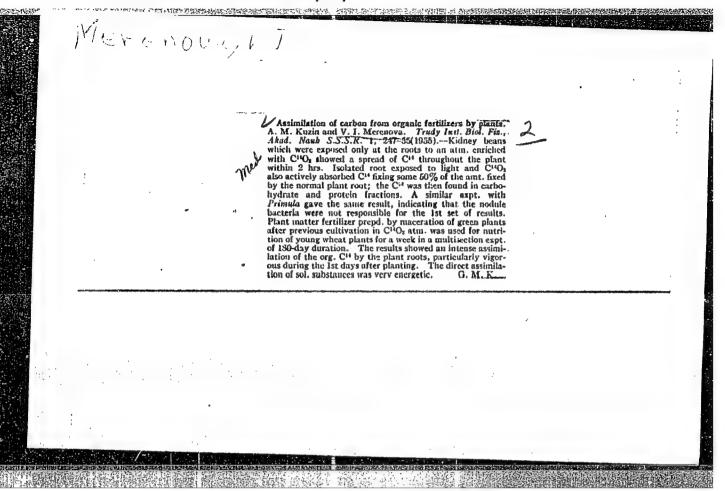
Biokhimia 19 no.5:616-618 S-0 "54. (MIRA 7:11)

1. Institut biofiziki Akademii nauk SSSR, Moscow.

(OPIUM AIKALOIDS) (CARBON-ISOTOPES)

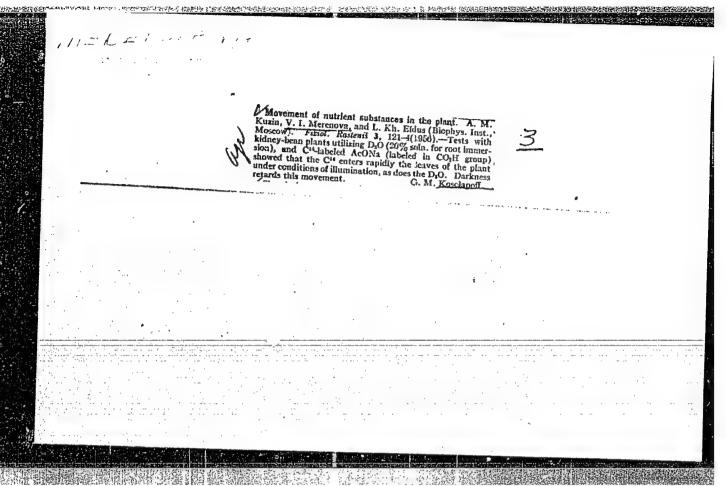






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"The level excitation probabilities in nuclear reactions."

report submitted for Intl Conf on Low & Medium Energies Nuclear Physics, Paris, 2-8 Jul 64.

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1. Institut biologicheskoy fiziki Akademii nauk SSSR. (Phosphorus compounds) (Plants--Mutrition)

TOKARSKAYA, V.I. (Merenova); KUZIN, A.M.

Metabolism of scetate-1-C¹⁴ absorbed by plant roots [with English summary in insert]. Biokhimiis 21 no.6:816-825 M-D *56. (MIRA 10:7)

1. Institut biologicheskoy fiziki *Akademii nauk SSSR, Moskva. (ACETIC ACID) (PIANTS-ASSIMILATION)

(PIANTS, EFFECT OF LIGHT ON)

TOKARSKAYA, V. I. and KUZIN, A. M.

"A total label of the organic substances of a plant by radio-active carbon as a method for studying metabolic distrubances," a paper substitted at the International Conference on Radioisotopes in Scientific Research, Paris, 9-20 Sep 57.

KUZIN, A.M.; TOKARSKAYA-MERENOVA, V.I.

Role of pyrimidine metabolism disorders in radiation injury.
Biofizika 4 no. 4:446-453 :59. (MIRA 14:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. (RADIATION SICKNESS) (PYRIMIDINES)

KUZIN, A.M.; TOKARSKAYA, V.I. (Merenova)

Complete C₁₄-labeling of organic substances in plants as a method of studying metabolic disorders [with summary in English]. Biokhimiia 24 no.1:80-86 Ja-F 159.

(MIRA 12:4)

1. Institute of Biological Physics, Academy of Sciences of the U.S.S.R., Moscow.

(CARBON, radioactive,

labeling organic cpds. in investigation of plant metab. disord. (Rus)) (PLANTS, metabolism.

radiocarbon labeling organic cpds. in investigation of metab. disord. (Rus))

TRINCHER, K.S.; TOKARSKAYA, V.I.

Primary and initial mechanisms of the biological activity of nuclear radiations. Biofizika 5 no. 6:758-761 160.

(RADIOACTIVITY-PHYSIOLOGICAL EFFECT)

(MIRA 13:10)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020012-7"

TOKARSKAYA, V. I. (USSR)

"Change in the Character of the DNA Synthesized in Plants after γ -Irradiation."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 August 1961

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Molecular Structure of IDNA and Radiation Danage to Cell

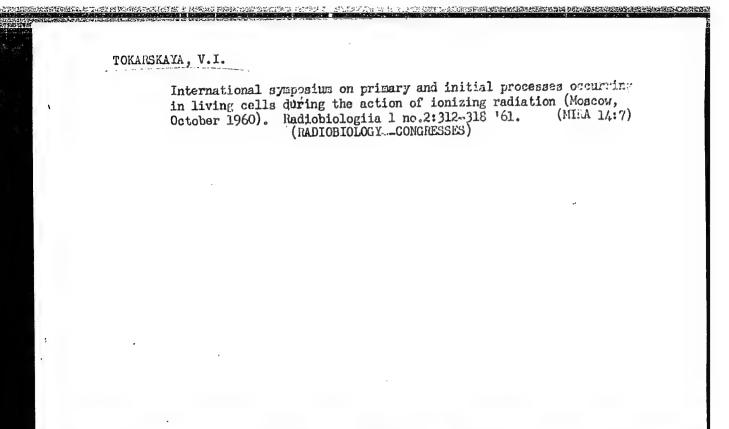
V. B. Struchevskaya and V. A. Vorchhor

In previous investigations the authors demonstrated in various cell types (crythrocytes and bone narrow of chickens, E. cell, Ehrich science cells) the high radiation-crondisty of the macromolecular DNA structure. In this inscription the authors standed the dynamics of the test of macromolecular Notes structure as a forestron of the inscription of the dynamics of the structure of the physio-chemical state of the macromolecular IDNA structure in the dynam could have a destined disturbance in the physio-chemical state of the macromolecular IDNA structure in the dynam and lister is observed inmediately after vibraliation of rats. The magnitude of the effect depends on door, in the thymnic is observed inmediately after vibraliation of rats. The magnitude of the effect depends on door, in the thymnic is observed in the structure of the following in radiations because in the top of the macromolecular structure of DNA are irrecentible, whereas in the lines the process is recervible. However, in the capacitation of the disturbance of the entirectures of them is interesting to the disturbance of the entirectures of them is interesting to the disturbance of the entirectures of the structure of DNA are interestingly as the circumstance of the entirecture of the process in receivable, as the circumstance of the macromolecular DNA structure thymnical way by the presence of owner, entirely the such as the circumstance of the macromolecular DNA structure thymnical way by the presence of owner, entirely the such as the excels of resident the fallowing of the structure of the process in receivable and the structure of the structure of the process in receivable and the structure of the structure of

(MIRA 14:10)

Qualitative changes in the desoxyribonucleic acid of pea seedlings following gamma irradiation. Radiobiologiia 1 no.3:330-332 '61.

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(DESOXYRIBONUCLEIC ACID)
(PLANTS, EFFECT OF GAMMA RAYS ON)



- TOKARSKAYA, V.I.

Decrease of the amount of thymine in the desoxyribonucleic acid of gamma-irradiated pea seedlings. Radiobiologii 1 no.2:193-199 (MIRA 14:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(PLANTS, EFFECT OF GAMMA RAYS ON) (THYMINE)
(DESOXYRIBONUCLEIC ACID)

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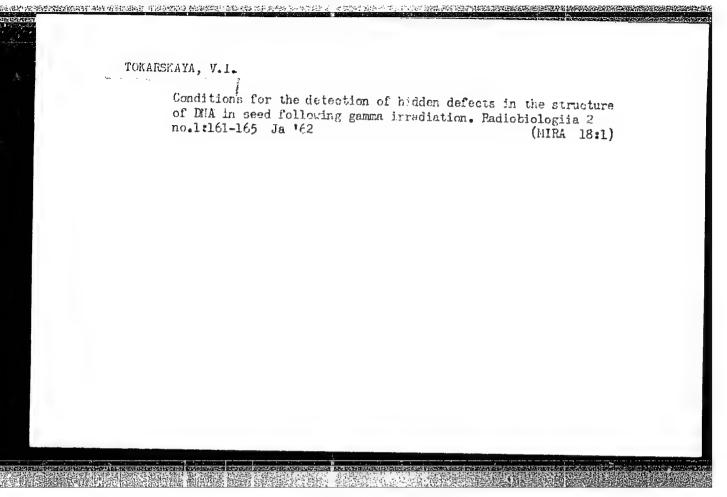
KUZIN, A.M.; ISAYEV, B.M.; KHVOSTOVA, V.V.; TOKARSKAYA, V.I.; BREGADZE, Yu.I.

Effectiveness of the biological action of C¹⁴ during its incorporation into living structures. Dokl.AN SSSR 134 no.4: (MIRA 13:9)

1. Institut biologicheskoy fiziki Akademii nauk SSSR. 2. Chlenkorrespondent AN SSSR (for Kuzin). (CARBON--ISOTOPES)

(PLANTS, EFFECT OF RADIOACTIVITY ON)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020012-7"



8/747/62/000/000/016/025 D296/D307

AUTHORS: Kuzin, A. M., Isayev, B. M., Khvostova, V. V., Tokarskaya, V. I. and Bregadze, Yu. I.

TITLE: The biological effect of C¹⁴ incorporated into living tissues

SOURCE: Radiatsionnaya genetika; sbornik rabot. Otd. biol. nauk AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 267-273

TEXT: After the performance of nuclear tests the content of radio-active carbon in the atmosphere increased between 1955 and 1958 at 5% annually. When assessing the possible biological effects of these doses they are usually estimated by the radiosensitivity of living tissues exposed to the external source of radiation. These calculations fail, however, to take into consideration the special geometry of incorporation of C^{14} into radiosensitive structures such as chromosomes as well as the so-called transformation effect in DNA molecules ($C^{14} \rightarrow N^{14}$). These effects may lead to more frequent aberracard 1/3

The biological effect ...

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tions than expected from calculations on the basis of the dose to which the cells are exposed. The authors compared the biological effect of c^{14} incorporated into plant seedlings, with the effect of exposure to external gamma radiation emitted by c^{60} . Normally growing 10-day old plants were placed into a photosynthesis chamber containing c^{14} 0 (total activity 100 μ C, volume of chamber 22.5 dm³); radioactivity of the inner layer of the plants was estimated on scincounting the proportion of micronuclei and the mitotic index. The in the control plants to 0.26% in the experimental plants. Plant cells exposed to more than double the dose of radiation (0060) tion revealed that the mutagenic effect of incorporated c^{14} was ten this fact shows that the transformation effect $c^{14} \rightarrow N^{14}$ as well as c^{14} 0.

The biological effect ...

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the special geometry of the incorporation of \mathbf{C}^{14} are factors to be considered further. There is 1 figure and 1 table.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moskva (Institute of Biological Physics, AS USSR, Moscow)

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020012-7"

Injury to the DNA structure under the influence of large inset of gamma rays in vitro. Padiobiologiia 4 no.3:357-359 1641 (MIRA 1711)
1. Institut biologicheskoy fiziki AN SSSR, Moskva.
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TOKARSKI, A.

GEOGRAPHY & GEOLOGY

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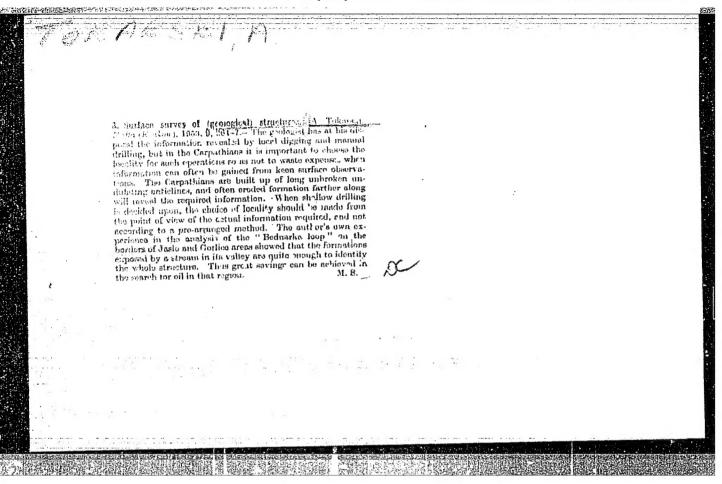
TOKARSKI, A. Significance of water intectonic diagnosis. In English. p. 105

Monthly List of East Duropean Accessions (EEAI) LC. Vol. 8, No. 5, May 1959, Unclass.

	PCLAND/Geology Geological Prospecting	Aug 1947				
	"The Hills of Grojec and the T Zywiec," Adam Tokarski, 53 pp	Cectonic Windows of				
	"Biuletyn, Fanstwowy Instytut Geologiczny" No 28					
	Geological discussion, with maps, of the stratigraphy, tectonics, and prospects for location of hydrocarbon resources in the area under discussion.					
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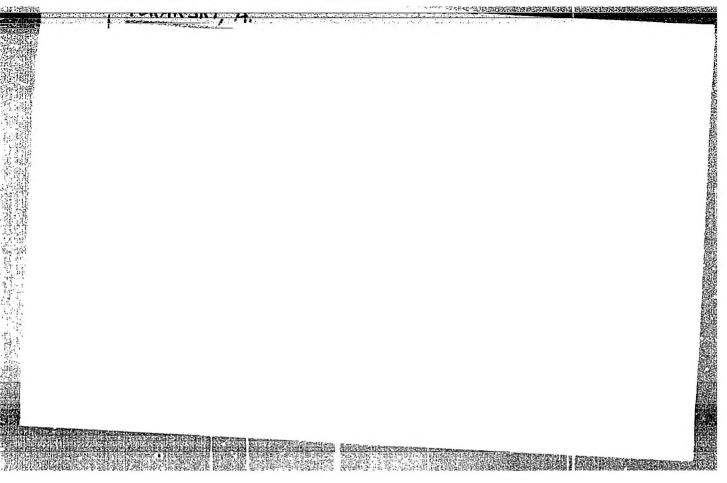
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TOKARSKI, A.

"The Directives for the Fifth Five- Year Plan in the USSR." p. 105 (NAFTA, Vol. 9, No. 4, Apr. 1953) Warszewa

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